

SquareRootMinusOne

Karl A. Seeler

An Imaginary Tale Paul J. Nahin,2010-02-22 Today complex numbers have such widespread practical use--from electrical engineering to aeronautics--that few people would expect the story behind their derivation to be filled with adventure and enigma. In *An Imaginary Tale*, Paul Nahin tells the 2000-year-old history of one of mathematics' most elusive numbers, the square root of minus one, also known as i . He recreates the baffling mathematical problems that conjured it up, and the colorful characters who tried to solve them. In 1878, when two brothers stole a mathematical papyrus from the ancient Egyptian burial site in the Valley of Kings, they led scholars to the earliest known occurrence of the square root of a negative number. The papyrus offered a specific numerical example of how to calculate the volume of a truncated square pyramid, which implied the need for i . In the first century, the mathematician-engineer Heron of Alexandria encountered i in a separate project, but fudged the arithmetic; medieval mathematicians stumbled upon the concept while grappling with the meaning of negative numbers, but dismissed their square roots as nonsense. By the time of Descartes, a theoretical use for these elusive square roots--now called imaginary numbers--was suspected, but efforts to solve them led to intense, bitter debates. The notorious i finally won acceptance and was put to use in complex analysis and theoretical physics in Napoleonic times. Addressing readers with both a general and scholarly interest in mathematics, Nahin weaves into this narrative entertaining historical facts and mathematical discussions, including the application of complex numbers and functions to important problems, such as Kepler's laws of planetary motion and ac electrical circuits. This book can be read as an engaging history, almost a biography, of one of the most evasive and pervasive numbers in all of mathematics. Some images inside the book are unavailable due to digital copyright restrictions.

An Imaginary Tale Paul Nahin,2010 Today complex numbers have such widespread practical use--from electrical engineering to aeronautics--that few people would expect the story behind their derivation to be filled with adventure and enigma. In *An Imaginary Tale*, Paul Nahin tells the 2000-year-old history of one of mathematics' most elusive numbers, the square root of minus one, also known as i . He recreates the baffling mathematical problems that conjured it up, and the colorful characters who tried to solve them. In 1878, when two brothers stole a mathematical papyrus from the ancient Egyptian burial site in the Valley of Kings, they led scholars to the earliest known occurrence of the square root of a negative number. The papyrus offered a specific numerical example of how to calculate the volume of a truncated square pyramid, which implied the need for i . In the first century, the mathematician-engineer Heron of Alexandria encountered i in a separate project, but fudged the arithmetic; medieval mathematicians stumbled upon the concept while grappling with the meaning of negative numbers, but dismissed their square roots as nonsense. By the time of Descartes, a theoretical use for these elusive square roots--now called imaginary numbers--Was suspected, but efforts to solve them led to intense, bitter debates. The notorious i finally won acceptance and was put to use in complex analysis and theoretical physics in Napoleonic times. Addressing readers with both a general and scholarly interest in mathematics, Nahin weaves into this narrative entertaining historical facts and mathematical discussions, including the application of complex numbers and functions to important problems, such as Kepler's laws of planetary motion and ac electrical circuits. This book can be read as an engaging history, almost a biography, of one of the most evasive and pervasive numbers in all of mathematics. Some images inside the book are unavailable due to digital copyright restrictions.

Man, God, and Civilization John G. Jackson,1990

Reason in Revolt, Vol. II Ted Grant,2007 Two of Britain's deans of socialist thought consider the philosophical writings of Marx and Engels in the light of recent advances in the sciences. The authors have written a dozen books; this work is a hit in ten countries. The book reasserts the dialectic

The Colours of Infinity Nigel Lesmoir-Gordon,2010-10-20 A geometry able to include mountains and clouds now exists. I put it together in 1975, but of course it incorporates numerous pieces that have been around for a very long time. Like everything in science, this new geometry has very, very deep and long roots. Benoît B. Mandelbrot Introduction This enhanced and expanded edition of *THE COLOURS OF INFINITY* features an additional chapter on the money markets by the fractal master himself, Professor Benoît Mandelbrot. The DVD of the film associated with this book has been re-mastered especially for this edition with exquisite new fractal animations, which will take your breath away! Driven by the curious enthusiasm that engulfs many fractalistas, in 1994, Nigel Lesmoir-Gordon overcame enormous obstacles to raise the finance for, then shoot and edit the groundbreaking TV documentary from which this book takes its name. The film has been transmitted on TV channels in over fifty countries around the world. This book is not just a celebration of the discovery of the Mandelbrot set, it also brings fractal geometry up to date with a gathering of the thoughts and enthusiasms of the foremost writers and researchers in the field. As Ian Stewart makes clear in the opening chapter, there were antecedents for fractal geometry before 1975 when Mandelbrot gave the subject its name and began to develop the underlying theory.

Schrödinger Erwin Schrödinger (Physicien, Autriche),1987-04-02 In this volume, prepared in 1987 to celebrate the centenary of Schrödinger's birth, leading figures have collaborated to produce this survey of the man and his science.

An Imaginary Tale Paul J. Nahin,2016-03-15 In the title, [the square root of minus one] appears as a radical over -1 .

An Attempt to Assign the Square Roots of Negative Powers; Or, What is [square Root Of] - 1? Francis Henry Laing,1863

Basic AC Circuits Clay Rawlins,2000-09-28 Covers electronics concepts, terms and the mathematics required to understand AC circuit problems.

Intermediate Algebra 2e Lynn Marecek,MaryAnne Anthony-Smith,Andrea Honeycutt Mathis,2020-05-06

Stalking the Riemann Hypothesis Dan Rockmore,2007-12-18 For 150 years the Riemann hypothesis has been the holy grail of mathematics. Now, at a moment when mathematicians are finally moving in on a proof, Dartmouth professor Dan Rockmore tells the riveting history of the hunt for a solution. In 1859 German professor Bernhard Riemann postulated a law capable of describing with an amazing degree of accuracy the occurrence of the prime numbers. Rockmore takes us all the way from Euclid to the mysteries of quantum chaos to show how the Riemann hypothesis lies at the very heart of some of the most cutting-edge research going on today in physics and mathematics.

System Dynamics Karl A. Seeler,2014-08-26 This unique textbook takes the student from the initial steps in modeling a dynamic system through development of the mathematical models needed for feedback control. The generously-illustrated, student-friendly text focuses on fundamental theoretical development rather than the application of commercial software. Practical details of machine design are included to motivate the non-mathematically inclined student.

Einstein and Human Consciousness Brad Buettner,2008-12-04 Which is more important: the practical or the sublime? Are you a Doer or a Dreamer? Brad Buettner has over twenty-four years of experience utilizing his physics degree in a wide array of engineering and management assignments. With this background he examines early twentieth-century physics and human relationships observed during his professional tenure to illustrate how Einstein's theory of relativity pertains to our perception of time and how it explains divisions in our outlook. By applying the theory of relativity to human consciousness, Buettner discovers the motivation for personal inclination toward either the practical or the abstract. Buettner defines total reality as containing more than the reality our senses perceive. When discussing alternate forms of reality, however, he insists on measurable and observable conclusions, eliminating references to mysticism, magic, or mystery. He outlines an engaging search for the unlikely possibility of interaction with the reality that existed before the Big Bang. *Einstein and Human Consciousness: Eternity is an Instant* provides stunning revelations concerning human reality. Does your world extend beyond that perceived by the physical senses? If so, why? Buettner offers the answers to these questions by explaining an aspect of reality that was previously elusive.

Elementary Algebra Maria H. Andersen,2010-01-05

Parallel Universes Fred Alan Wolf,1988 Explores the degree to which a belief in parallel universes shapes the thinking of contemporary physicists in areas as diverse as relativity, psychology, quantum mechanics, and cosmology.

Simplicity and Complexity in Games of the Intellect Lawrence B. Slobodkin,1992 If it were necessary, for some curious legal reason, to draw a clear line between human and nonhuman--for example, if a group of australopithecines were to appear and one had to decide if they were to be protected by Fair Employment Laws or by the ASPCA--I would welcome them as humans if I knew that they were seriously concerned about how to bury their dead. In this witty and wise way, Lawrence Slobodkin takes us on a spirited quest for the multiple meanings of simplicity in all facets of life. Slobodkin begins at the beginning, with a consideration of how simplicity came into play in the development of religious doctrines. He nimbly moves on to the arts--where he ranges freely from dining to painting--and then focuses more sharply on the role of simplicity in science. Here we witness the historical beginnings of modern science as a search for the fewest number of terms, the smallest number of assumptions, or the lowest exponents, while still meeting criteria for descriptive accuracy. The result may be an elegant hypothetical system that generates the apparent world from less apparent assumptions, as with the Newtonian revolution; or it may mean deducing non-obvious processes from everyday facts, as with the Darwinian revolution. Slobodkin proposes that the best intellectual work is done as if it were a game on a simplified playing field. He supplies serious arguments for considering the role of simplification and playfulness in all of our activities. The immediate effect of his unfailingly captivating essay is to throw open a new window on the world and to refresh our perspectives on matters of the heart and mind.

I is a Strange Loop Marcus du Sautoy,Victoria Gould,2021-06-03 Alone in a cube that's glowing in the darkness, X is content within its little universe of infinite thought. This solitude is disturbed by the appearance of Y, who insists on exposing X to the richness of the physical world. Each begins to long for what the other has, luring them into a strange loop.In this play for two variables, Marcus du Sautoy and Victoria Gould use mathematics and theatre to navigate the furthest reaches of our world. Through a series of surreal episodes, X and Y tackle some of life's greatest questions: where did the universe come from, does time have an end, do we have free will?I is a Strange Loop was first performed by the authors at the Barbican Pit, London, in March 2019.'I is a Strange Loop is a play that plays... with ideas, concepts, abstractions and relationships that are, usually, hidden from the sight of ordinary mortals, articulating the ineffable, incarnating the incorporeal, revealing the inconceivable... it makes us feel we know a great deal more than we do.... and is also very funny, utterly compelling and marvellously human.' Simon McBurney

The Outline of Man's Knowledge Clement Wood,1927

Unified Field Mechanics: Natural Science Beyond The Veil Of Spacetime - Proceedings Of The Ix Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier Amoroso Richard L,Kauffman Louis H,Rowlands Peter,2015-09-08 Unified Field Mechanics, the topic of the 9th international symposium honoring noted French mathematical physicist Jean-Pierre Vigier cannot be considered highly speculative as a myopic critic might surmise. The 8th Vigier Symposium proceedings 'The Physics of Reality' should in fact be touted as a companion volume because of its dramatic theoretical Field Mechanics in additional dimensionality. Many still consider the Planck-scale zero-point field stochastic quantum foam as the 'basement of reality'. This could only be considered true under the limitations of the Copenhagen interpretation of quantum theory. As we enter the next regime of Unified Field Mechanics we now know that the energy-dependent Einstein-Minkowski manifold called spacetime has a finite radius beyond which a large-scale multiverse beckons. So far a battery of 14 experiments has been designed to falsify the model. When the 1st is successfully performed, a revolution in Natural Science will occur! This volume strengthens and expands the theoretical and experimental basis for that immanent new age.

The Methodist Quarterly Review ,1924

Whispering the Techniques of Language: An Mental Journey through **SquareRootMinusOne**

In a digitally-driven world wherever screens reign supreme and instant interaction drowns out the subtleties of language, the profound strategies and psychological nuances hidden within words frequently go unheard. Yet, located within the pages of **SquareRootMinusOne** a interesting fictional prize blinking with raw emotions, lies an exceptional journey waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus invites readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within ab muscles material of each and every word. Within the emotional depths with this poignant evaluation, we will embark upon a honest exploration of the book is core themes, dissect their interesting writing fashion, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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